

HEADQUARTERS
UNITED STATES EUROPEAN COMMAND
UNIT 30400, BOX 1000
APO AE 09128

DIRECTIVE
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COMMUNICATIONS AND ELECTRONICS

Management and Use of the Electromagnetic Spectrum

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1. **Summary.** This directive establishes policy and assigns responsibilities of the management and use of the electromagnetic (EM) spectrum within the European Command.
 2. **Applicability.** This directive applies to all DOD activities operating or intending to operate communications or electronic equipment in the USEUCOM Area of Responsibility (AOR). Those non-DOD activities making use of the EM spectrum are encouraged to coordinate or make known their requirements or uses to USCINCEUR ECJ6-F where appropriate.
 3. **Suggested Improvements.** Any suggestions for improvements and/or corrections to this document will be forwarded to HQ USEUCOM ATTN: ECJ6 APO AE 09128 or email spectrum@eucom.mil.
 4. **References.**
 - a. DOD Directive 4650.1 Management and Use of the Radio Frequency Spectrum, 24 Jun 87.
 - b. DOD Directive 5100.35 Military Communications-Electronics Board, 6 May 85.
 - c. ACP 190 US SUPP-1 Guide to Frequency Planning (U), 1 Apr 91.
 - d. DOD Directive 3222.3 DOD, Electromagnetic Compatibility Program, 20 Aug 90.
 - e. USCMEB Memorandum, USMCEB-M-006-83(C) Joint Spectrum Management Policy and Procedures, 11 Jan 83.
 - f. USEUCOM Spectrum Management Manual (SMM), Volume I, General Policy and Procedures, Feb 98.

This Directive supersedes ED 100-6, 19 Dec 94.

g. USEUCOM Directive 100-16 Host Nation Approval (HNA) Procedures for Communications-Electronics Equipment, 28 Jun 90.

5. **Explanation of Terms.** For the purposes of this directive, the following definitions apply:

a. Electromagnetic Spectrum. Any transmission of electromagnetic waves in free space, falling between 2 kilohertz (KHz) and 3 terahertz (THz).

b. Spectrum Management. The function whereby all users of the electromagnetic spectrum make economical and efficient use with emphasis on conservation of this limited sovereign resource.

c. Frequency Engineering. The function whereby all available techniques and technology are applied to obtain the necessary minimum spectrum space essential to meet mission requirements.

d. Electromagnetic Compatibility. The condition under which devices which use the electromagnetic spectrum will operate in their intended operational environment without unacceptable degradation due to unintentional electromagnetic interference.

6. **Responsibilities.**

a. USCINCEUR ECJ6 is assigned the primary responsibility for DOD telecommunications management and policy in the USEUCOM AOR, and elsewhere, as directed by the JCS. See ref c.

(1) Spectrum management will be accomplished within the scope of this policy by the Spectrum Management Division, Directorate of Command, Control, Communications Systems, ECJ6-F.

(2) The Spectrum Management Division will represent the DOD and USEUCOM in NATO and international fora by providing the US Representative and Assistant US Representative to the NATO Frequency Management Subcommittee (FMSC).

b. The Spectrum Management Division will develop and publish the USEUCOM Spectrum Management Manual (SMM), which will be directive in nature and contain the appropriate guidance and procedures necessary to implement the objectives and intent of the references. See ref f.

c. DOD components and agencies operating the USEUCOM AOR will:

(1) Ensure that all new equipment or equipment planned for modification is engineered in such a manner as to be operationally compatible with the intended environment when deployed for testing or operations purposes. See ref a.

(2) Act as the focal point for all frequency actions originating within their commands or as directed in the USEUCOM SMM.

(3) Process all frequency matters relating to spectrum occupancy, such as proposals for new frequencies, modifications to or deletions of existing assignments, IAW USEUCOM SMM.

d. Offices of Defense Cooperation, Missions, and Defense Attaché Offices (subject to approval of the Department of State) are responsible for:

(1) Coordinating frequency matters which are addressed to them with the host government concerned, through established local procedures and agreements.

(2) Advising USCINCEUR of pending or on-going changes to local government frequency management policy as it affects DOD.

7. **Policy and Procedures.**

a. Systems being introduced into, as well as systems existing within, the USEUCOM AOR will be electromagnetically compatible with the intended operational environment and established rules and regulations. New or existing communications-electronics (C-E) equipment will not be introduced into the USEUCOM AOR until it has been determined to be compatible with the intended environment. Initial applications for spectrum use will include a detailed analysis of the new or modified equipment's impact on the existing and planned operational environment. See ref g.

b. Spectrum management will ensure efficient use of the electromagnetic spectrum by encouraging frequency sharing, especially in support of administrative and training requirements. The goal is to ensure that thorough engineering and analysis reviews have been undertaken on all proposals for use of the spectrum prior to authorizing specific uses.

c. The attainment of reliable command and control communications is the paramount goal of spectrum management. Every effort will be utilized to ensure the achievement of this goal through the application of policy contained in ref a.

d. All requests for waiver of this policy will be considered based upon operational necessity in support of the USCINCEUR mission.

e. All spectrum resources used by DOD activities within USEUCOM will be coordinated with and approved by USCINCEUR or his representative for spectrum management. DOD agencies will obtain required frequency authorizations prior to procuring and operating radio equipment in the USEUCOM AOR.

f. HQ USEUCOM J6 will use the Joint Spectrum Center (JSC) as the primary scientific and technical advisor on research, development, test, and evaluation matters that may impinge on telecommunications spectrum management and policy, radio frequency engineering, and electromagnetic compatibility.

g. Matters related to electromagnetic compatibility will be treated in accordance with the DOD Electromagnetic Compatibility Program set forth in ref d.

h. Detailed policy guidance and procedures to effectively implement objectives and intent of the references is contained in the USEUCOM Spectrum Management Manual. See ref f.

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